

CLAIMS

1. An LED light tube for replacement of a fluorescent light tube, the LED light tube comprising:
 - an elongated, cylindrical transparent envelope;
 - a base cap at each end of the envelope, wherein the base cap comprises a first prong and a second prong extending from the base cap; and
 - at least one serial string of LEDs in electrical communication with the base cap having circuitry means for connection with an AC source through a nondissipative voltage dropping element, wherein each one of the at least one serial string of LEDs are connected in parallel with the other and are enclosed in the envelope.
2. The LED light tube of Claim 1, wherein the at least one serial string of LEDs comprises a plurality of organic light emitting diodes.
3. The LED light tube of Claim 1, wherein the at least one serial string of LEDs comprises spacedly stacked circuit boards, wherein each one of the circuit boards include a plurality of serially connected LEDs mounted thereon.

4. A troffer LED light tube fixture comprising:
a housing comprising a tube holder, wherein the tube holder comprises electrical sockets adapted to receive and electrically communicate an LED light tube; and
an LED light tube disposed in the tube holder, wherein the LED light tube comprises an elongated, cylindrical transparent envelope, a base cap at each end of the envelope, wherein the base cap comprises a first prong and a second prong extending from the base cap, and at least one serial string of LEDs in electrical communication with the base cap having circuitry means for connection with an AC source through a nondissipative voltage dropping element, wherein each one of the at least one serial string of LEDs are connected in parallel with the other and are enclosed in the envelope.
5. The troffer light fixture according to Claim 4, wherein the housing further comprises a reflective material disposed on a surface of the housing for maximizing the light output.
6. The troffer light fixture according to Claim 4, wherein the at least one serial string of LEDs comprises a plurality of organic light emitting diodes
7. The troffer light fixture of Claim 4, further comprising a means for protection against a voltage surge.

8. The troffer light fixture of Claim 7, wherein the means for protection against a voltage surge comprises a varistor positioned in parallel with the at least one serial string of LEDs.
9. The troffer light fixture of Claim 4, further comprising a ballast transformer and means for bypassing the ballast transformer.
10. The troffer light fixture of Claim 4, wherein the means for bypassing the ballast transformer comprises a voltage reduction circuit and frequency reduction circuit.